

CLAIM AMENDMENTS

1. (canceled)

1 2. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1]]~~ 26, wherein the ~~conductive~~ windings
3 comprise a first set of coil windings disposed in the first stator
4 part and a second set of coil windings disposed in the second
5 stator part.

6 3. (currently amended) The ~~[[An]]~~ electric motor
7 according to claim ~~[[1]]~~ 26, wherein there are provided more than
8 two stator parts located in the ~~annular cavity, chamber~~ and a
9 corresponding number of magnetic elements in the rotor.

1 4. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1]]~~ 26, wherein the inner tube is secured in
3 the outer tube by swaging.

1 5. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1]]~~ 26, wherein the rotor includes a rotatable
3 shaft comprises comprising separately formed shaft elements which
4 are secured together in series.

1 6. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim 5, wherein the rotor has a first shaft element
3 ~~[[is]]~~ disposed within the first stator part ~~[[,]]~~ and a second
4 shaft element ~~[[is]]~~ disposed within the second stator part.

1 7. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1]]~~ 26, wherein the outer tube comprises
3 separately formed outer tube elements ~~which are~~ secured together in
4 series.

1 8. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1]]~~ 26, wherein the outer tube is at least
3 partially secured to the ~~modules by~~ inner tube inward radial
4 deformation.

1 9. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1,]]~~ 26 wherein the inner tube is made from a
3 nonmagnetizable material.

1 10. (currently amended) ~~An electric motor according to~~
2 ~~claim 1, wherein the chamber includes~~ An electric motor for
3 powering downhole tools, the motor comprising:
4 a first stator;
5 a second stator;
6 conductive windings;

7 a shaft centered on and extending along an axis and
8 including a first magnetic element and a second magnetic element;
9 coaxial inner and outer tubes defining a sealed annular
10 chamber holding the first and second stators, the first magnetic
11 element being aligned with the first stator and the second magnetic
12 element being aligned with the second stator such that when the
13 windings are energized the stators act on the magnetic elements;
14 and

15 a pressure compensation means in the chamber.

1 11. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim 10, wherein the pressure compensation means is
3 axially slidable annular seals.

1 12. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~1~~, wherein 26, further comprising a connection
3 of the windings to a power supply ~~[[is]]~~ enclosed in the sealed
4 chamber.

1 13. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[1,]]~~ 26 wherein the rotor is connected to a
3 pump.

14 - 20. (canceled)

1 21. (currently amended) ~~An electric motor according to~~
2 ~~claim 15, wherein the chamber includes~~ An electric motor suitable
3 for installing in a borehole for powering downhole tools, the motor
4 comprising

5 a stator including a first set of coil windings;
6 a rotatable shaft including a magnetic element;
7 an outer hollow tube and an inner tube concentrically
8 inside the outer tube together defining an annular chamber, the
9 inner tube defining a flowpath, the stator being located in the
10 annular chamber, the rotatable shaft and the magnetic element being
11 at least partially tubular; and

12 a pressure compensation means in the chamber.

1 22. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim 21, wherein the pressure compensation means is
3 axially slidable annular seals.

1 23. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~15, wherein~~ 25, further comprising a connection
3 of the windings to a DC supply ~~is enclosed in the sealed chamber.~~

1 24. (currently amended) The ~~[[An]]~~ electric motor
2 according to claim ~~[[15,]]~~ 25 wherein the rotor is connected to a
3 pump.

1 25. (new) An electric motor for installation in a bore
2 to power a downhole tool, the motor comprising:
3 an inner tube centered on an axis and forming on the axis
4 a flowpath;
5 an outer tube coaxially spacedly surrounding the inner
6 tube and axially and rotationally fixed to the inner tube; and
7 seals between the inner and outer tube forming therewith
8 a chamber separate from the flowpath;
9 a stator having windings and laminations in the chamber;
10 and
11 a rotor connected to the tool and having in the inner
12 tube a magnetic element coacting with the stator.

1 26. (new) The electric motor defined in claim 25
2 wherein the stator has first and second axially similar parts, and
3 the rotor has respective first and second parts similarly axially
4 spaced and juxtaposed with the respective stator parts.